

# DENTAL CLINIC MANAGEMENT SYSTEM

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## **SUPERVISOR'S DECLARATION**

I hereby declare that I have checked this thesis and, in my opinion, this thesis is adequate in terms of scope and quality for the award of the degree of Bachelor of Computer Science and Software Engineering

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## **STUDENT'S DECLARATION**

I hereby declare that the work in this thesis is based on my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously or concurrently submitted for any other degree at Universiti Malaysia Pahang or any other institutions.

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# DENTAL CLINIC MANAGEMENT SYSTEM

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## **ABSTRAK**

DCMS adalah sistem berbasis web yang akan membantu organisasi klinik gigi untuk menguruskan operasi mereka secara sistematis. Daripada menggunakan cara manual atau tradisional untuk mendaftar pesakit baru. Kebarangkalian kehilangan rekod kesihatan pesakit lebih tinggi daripada menggunakan sistem. Sistem ini akan menyimpan rekod kesihatan pesakit dalam pangkalan data. Pesakit dengan mudah boleh membuat tempahan untuk temujanji.

## **ABSTRACT**

DCMS is a web-based system that will help an organization of dental clinic to manage their operation systematically. Instead of using manual or traditional way to register new patient. Probability to lost the record of patients' health is higher rather than using a system. The system will save the patients' health record in database. Patient easily can book for an appointment.

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## **CHAPTER 1**

### **INTRODUCTION**

#### **1.1 Introduction**

Nowadays, the rapid growth of dental clinic leads them to compete each other aggressively. The most important about a dental clinic business is their management level. If they are good enough in manage their clinic, it will be good in their business profit too. Some dental clinic still having an outdated management system that can risk their business. They register the patient information on a piece of paper, stored them in a file, arrange the files manually on the racks, and retrieve them when needs. These are the normal process related to patients' information of the old management system. So, to complete the limitation of the old management system which are using a lot of paper to record, manually store and retrieve the file which consume much effort and time, and no backup if the record being destroyed physically.

With the technology that we learned till this moment, there is a solution to overcome the problems of the old management system. The solution is a web-based system that can assist its user in managing their clinic in a better and efficient way. To support the statement, I propose a system named Dental Clinic Management System (DCMS). The DCMS will be used by 3 user categories which are admin, dentist, and patient. The main objective of the DCMS is to overcome the problem faced by most dental clinic out there and help them to gain more profit on their business.

As a conclusion, DCMS will be develop to upgrade the current management system of a dental clinic to the next higher level.

## **1.2 Problem Statement**

As to the existing management system in the dental clinic, they lacked in several aspects such as;

- i. Using a lot of paper to register new patients' information that can harm our earth.
- ii. Manually keep and retrieve the file of patients' health record that are not efficient in both time and effort.
- iii. The file of patients' health record is not safe since it can be easily altered and destroyed physically by irresponsible person.

## **1.3 Objective**

There are 3 objectives of this management system which are;

- i. To study the Dental Clinic Management System.
- ii. To develop a Dental Clinic Management System.
- iii. To evaluate the functionality of Dental Clinic Management System that has been developed.

## 1.4 Scope

The Dental Clinic Management System will scope to these users;

User	Functionality	Software	Hardware
Admin	Login Register Manage Dentist Manage Patients Manage Appointments Manage Treatments Manage Payments Manage Reports	Browser (Google Chrome, Firefox, Microsoft Edge)	Desktop/PC
Dentists	Login Manage Appointments Manage Treatments Manage Payments	Browser (Google Chrome, Firefox, Microsoft Edge)	Desktop/PC
Patients	Login Register Manage Appointments Manage Treatments Manage Payments	Browser (Google Chrome, Firefox, Microsoft Edge)	Desktop/PC

## 1.5 Thesis Organization

This section is about chapter that going to be documented in the thesis. Chapter 1 discussing on the introduction of the system that we going to developed. Chapter 2 is some sort of researching on existing system that can help a lot in upgraded the current system which have similarity to our system. Chapter 3 will discuss on methodology that going to be used in this project. Chapter 4, result and discussion is being documented. Lastly is Chapter 5 where the conclusion being conclude and every detail being documented.

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